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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/852,398	05/09/2001	Jean-Yves Bouguet	42390.P10789	5403	
7590 11/21/2003			EXAM	EXAMINER	
Sang Hui Mid		KIBLER, VI	KIBLER, VIRGINIA M		
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard			ART UNIT	PAPER NUMBER	
			2623	^	
Los Angeles, CA 90025-1026			DATE MAILED: 11/21/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/852,398	BOUGUET ET AL.			
Office Action Summary	Examiner	Art Unit			
	Virginia M Kibler	2623			
The MAILING DATE of this communication ap	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE and date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on					
 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.				
Application Papers	•				
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the lead of a drawing(s) be held in abeyance. See tion is required if the drawing(s) is objection.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. §§ 119 and 120	•				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority documents. Copies of the certified copies of the priority documents. See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the firm 37 CFR 1.78. a) The translation of the foreign language process.	ts have been received. Its have been received in Applicationity documents have been received in (PCT Rule 17.2(a)). It of the certified copies not received in priority under 35 U.S.C. § 119(a) are sentence of the specification or covisional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)			
J.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Office A	ction Summary	Part of Paper No. 6			

Application/Control Number: 09/852,398

Art Unit: 2623

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 9 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites the limitation "the PCA processed stereo data" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

Claim 14 recites the limitation "the processed stereo data" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Guenter et al. (Making Faces).

Regarding claims 1, 6, and 11, Guenter et al. ("Guenter") discloses obtaining stereo data based on input image sequences (Sect. 2) and building a 3D model using the obtained stereo data

Application/Control Number: 09/852,398

Art Unit: 2623

(Abstract). Guenter further discloses tracking a monocular image sequence using the built 3D model (Sect. 3.1, para. 3).

Regarding claims 2, 7, and 12, Guenter discloses the stereo data based on input images sequences of varying facial expressions (Abstract, lines 3-6).

Regarding claims 3, 8, and 13, Guenter discloses the 3D model includes processing the obtained stereo data using PCA (Sect. 7.1).

Regarding claims 4, 9, and 14, Guenter discloses using PCA to process the stereo data (Sect. 7.1), thereby allowing the 3D model to approximate a generic shape as a linear combination of shape basis vectors.

Regarding claims 5, 10, and 15, Guenter discloses the tracking monocular image sequence of facial deformations (Figure 16).

Other Prior Art Cited

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Pat. No. 6,047,078 to Kang for extracting a 3D Model using appearance-based constrained structure from motion;

Kumar et al., "3D Model Acquisition from Monocular Image Sequences," IEEE 1992; and

Ray, "Estimation of Modeled Object Pose from Monocular Images," IEEE 1990.

Page 4

Contact Information

Any inquiry concerning this communication or earlier communications from the 6. examiner should be directed to Virginia M Kibler whose telephone number is (703) 306-4072. The examiner can normally be reached on Mon-Thurs 8:00 - 5:30 and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703) 308-6604. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

110 VK

11/18/03

MEHRDAD DASTOURI PRIMARY EXAMINER Mehrdad Dartour